

$f'_2(1525)$

$$I^G(J^{PC}) = 0^+(2^{++})$$

$f'_2(1525)$ MASS

VALUE (MeV)DOCUMENT ID**1525 ± 5 OUR ESTIMATE** This is only an educated guess; the error given is larger than the error on the average of the published values.

PRODUCED BY PION BEAM

VALUE (MeV)EVTSDOCUMENT IDTECNCOMMENT

● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●

1521 ± 13		TIKHOMIROV 03	SPEC	40.0	$\pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
1547 ⁺¹⁰ ₋₂		² LONGACRE 86	MPS	22	$\pi^- p \rightarrow K_S^0 K_S^0 n$
1496 ⁺⁹ ₋₈		³ CHABAUD 81	ASPK	6	$\pi^- p \rightarrow K^+ K^- n$
1497 ⁺⁸ ₋₉		CHABAUD 81	ASPK	18.4	$\pi^- p \rightarrow K^+ K^- n$
1492 ± 29		GORLICH 80	ASPK	17	$\pi^- p$ polarized → $K^+ K^- n$
1502 ± 25		⁴ CORDEN 79	OMEG	12–15	$\pi^- p \rightarrow \pi^+ \pi^- n$
1480	14	CRENNELL 66	HBC	6.0	$\pi^- p \rightarrow K_S^0 K_S^0 n$

PRODUCED BY K^\pm BEAM

VALUE (MeV)EVTSDOCUMENT IDTECNCOMMENT**1523.4 ± 1.3 OUR AVERAGE** Includes data from the datablock that follows this one. Error includes scale factor of 1.1.

1526.8 ± 4.3		ASTON 88D	LASS	11	$K^- p \rightarrow K_S^0 K_S^0 \Lambda$
1504 ± 12		BOLONKIN 86	SPEC	40	$K^- p \rightarrow K_S^0 K_S^0 Y$
1529 ± 3		ARMSTRONG 83B	OMEG	18.5	$K^- p \rightarrow K^- K^+ \Lambda$
1521 ± 6	650	AGUILAR-...	81B HBC	4.2	$K^- p \rightarrow \Lambda K^+ K^-$
1521 ± 3	572	ALHARRAN 81	HBC	8.25	$K^- p \rightarrow \Lambda K \bar{K}$
1522 ± 6	123	BARREIRO 77	HBC	4.15	$K^- p \rightarrow \Lambda K_S^0 K_S^0$
1528 ± 7	166	EVANGELISTA 77	OMEG	10	$K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
1527 ± 3	120	BRANDENB... 76C	ASPK	13	$K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
1519 ± 7	100	AGUILAR-...	72B HBC	3.9, 4.6	$K^- p \rightarrow K \bar{K} (\Lambda, \Sigma)$

● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●

1513 ± 10		⁵ BARKOV 99	SPEC	40	$K^- p \rightarrow K_S^0 K_S^0 y$
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PRODUCED IN e^+e^- ANNIHILATION

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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The data in this block is included in the average printed for a previous datablock.

1520.7 ± 2.0 OUR AVERAGE

1521 ± 5		ABLIKIM	05 BES2	$J/\psi \rightarrow \phi K^+ K^-$
1518 ± 1 ± 3		ABE	04 BELL	$10.6 e^+e^- \rightarrow e^+e^- K^+ K^-$
1519 ± 2 $\begin{smallmatrix} +15 \\ -5 \end{smallmatrix}$		BAI	03G BES	$J/\psi \rightarrow \gamma K \bar{K}$
1523 ± 6	331	⁶ ACCIARRI	01H L3	91, 183–209 $e^+e^- \rightarrow e^+e^- K_S^0 K_S^0$
1535 ± 5 ± 4		ABREU	96C DLPH	$Z^0 \rightarrow K^+ K^- + X$
1516 ± 5 $\begin{smallmatrix} +9 \\ -15 \end{smallmatrix}$		BAI	96C BES	$J/\psi \rightarrow \gamma K^+ K^-$
1531.6 ± 10.0		AUGUSTIN	88 DM2	$J/\psi \rightarrow \gamma K^+ K^-$
1515 ± 5		⁷ FALVARD	88 DM2	$J/\psi \rightarrow \phi K^+ K^-$
1525 ± 10 ± 10		BALTRUSAIT..	87 MRK3	$J/\psi \rightarrow \gamma K^+ K^-$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
1529 ± 10		ACCIARRI	95J L3	Repl. by ACCIARRI 01H
1496 ± 2		⁸ FALVARD	88 DM2	$J/\psi \rightarrow \phi K^+ K^-$

PRODUCED IN $\bar{p}p$ ANNIHILATION

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●

1508 ± 9	⁹ AMSLER	02 CBAR	$0.9 \bar{p}p \rightarrow \pi^0 \eta \eta, \pi^0 \pi^0 \pi^0$
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CENTRAL PRODUCTION

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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1515 ± 15	BARBERIS	99 OMEG	$450 p p \rightarrow p_s p_f K^+ K^-$
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PRODUCED IN $e p$ COLLISIONS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●

1537 $\begin{smallmatrix} +9 \\ -8 \end{smallmatrix}$	84	¹ CHEKANOV	04 ZEUS	$e p \rightarrow K_S^0 K_S^0 X$
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¹ Systematic errors not estimated.² From a partial-wave analysis of data using a K-matrix formalism with 5 poles.³ CHABAUD 81 is a reanalysis of PAWLICKI 77 data.⁴ From an amplitude analysis where the $f_2'(1525)$ width and elasticity are in complete disagreement with the values obtained from $K \bar{K}$ channel, making the solution dubious.⁵ Systematic errors not estimated.⁶ Supersedes ACCIARRI 95J.⁷ From an analysis ignoring interference with $f_0(1710)$.⁸ From an analysis including interference with $f_0(1710)$.⁹ T-matrix pole.

$f'_2(1525)$ WIDTH

VALUE (MeV)	DOCUMENT ID	COMMENT
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73^{+6}_{-5} OUR FIT

76 ± 10	PDG	90 For fitting
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PRODUCED BY PION BEAM

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

102 ± 42	TIKHOMIROV 03	SPEC	40.0 $\pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
108 $^{+5}_{-2}$	¹¹ LONGACRE	86 MPS	22 $\pi^- p \rightarrow K_S^0 K_S^0 n$
69 $^{+22}_{-16}$	¹² CHABAUD	81 ASPK	6 $\pi^- p \rightarrow K^+ K^- n$
137 $^{+23}_{-21}$	CHABAUD	81 ASPK	18.4 $\pi^- p \rightarrow K^+ K^- n$
150 $^{+83}_{-50}$	GORLICH	80 ASPK	17 $\pi^- p$ polarized $\rightarrow K^+ K^- n$
165 ± 42	¹³ CORDEN	79 OMEG	12–15 $\pi^- p \rightarrow \pi^+ \pi^- n$
92 $^{+39}_{-22}$	¹⁴ POLYCHRO...	79 STRC	7 $\pi^- p \rightarrow n K_S^0 K_S^0$

PRODUCED BY K^\pm BEAM

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
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80.2 ± 2.6 OUR AVERAGE Includes data from the datablock that follows this one.

90 ± 12	ASTON	88D LASS	11 $K^- p \rightarrow K_S^0 K_S^0 \Lambda$
73 ± 18	BOLONKIN	86 SPEC	40 $K^- p \rightarrow K_S^0 K_S^0 Y$
83 ± 15	ARMSTRONG	83B OMEG	18.5 $K^- p \rightarrow K^- K^+ \Lambda$
85 ± 16	650 AGUILAR-...	81B HBC	4.2 $K^- p \rightarrow \Lambda K^+ K^-$
80 $^{+14}_{-11}$	572 ALHARRAN	81 HBC	8.25 $K^- p \rightarrow \Lambda K \bar{K}$
72 ± 25	166 EVANGELISTA	77 OMEG	10 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
69 ± 22	100 AGUILAR-...	72B HBC	3.9, 4.6 $K^- p \rightarrow K \bar{K} (\Lambda, \Sigma)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

75 ± 20	¹⁵ BARKOV	99 SPEC	40 $K^- p \rightarrow K_S^0 K_S^0 y$
62 $^{+19}_{-14}$	123 BARREIRO	77 HBC	4.15 $K^- p \rightarrow \Lambda K_S^0 K_S^0$
61 ± 8	120 BRANDENB...	76C ASPK	13 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$

PRODUCED IN $e^+ e^-$ ANNIHILATION

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
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The data in this block is included in the average printed for a previous datablock.

79.9± 3.3 OUR AVERAGE Error includes scale factor of 1.1.

77 ±15		ABLIKIM	05	BES2	$J/\psi \rightarrow \phi K^+ K^-$
82 ± 2 ± 3		ABE	04	BELL	$10.6 e^+ e^- \rightarrow e^+ e^- K^+ K^-$
75 ± 4 $\frac{+15}{-5}$		BAI	03G	BES	$J/\psi \rightarrow \gamma K \bar{K}$
100 ±15	331	¹⁶ ACCIARRI	01H	L3	91, 183–209 $e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
60 ±20 ±19		ABREU	96C	DLPH	$Z^0 \rightarrow K^+ K^- + X$
60 ±23 $\frac{+13}{-20}$		BAI	96C	BES	$J/\psi \rightarrow \gamma K^+ K^-$
103 ±30		AUGUSTIN	88	DM2	$J/\psi \rightarrow \gamma K^+ K^-$
62 ±10		¹⁷ FALVARD	88	DM2	$J/\psi \rightarrow \phi K^+ K^-$
85 ±35		BALTRUSAIT..	87	MRK3	$J/\psi \rightarrow \gamma K^+ K^-$

• • • We do not use the following data for averages, fits, limits, etc. • • •

76 ±40		ACCIARRI	95J	L3	Repl. by ACCIARRI 01H
100 ± 3		¹⁸ FALVARD	88	DM2	$J/\psi \rightarrow \phi K^+ K^-$

PRODUCED IN $\bar{p}p$ ANNIHILATION

<u>VALUE (MeV)</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
79±8		¹⁹ AMSLER	02	CBAR $0.9 \bar{p}p \rightarrow \pi^0 \eta \eta, \pi^0 \pi^0 \pi^0$

CENTRAL PRODUCTION

<u>VALUE (MeV)</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
70±25		BARBERIS	99	OMEG $450 p p \rightarrow p_s p_f K^+ K^-$

PRODUCED IN $e p$ COLLISIONS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
50 $\frac{+34}{-22}$	84	¹⁰ CHEKANOV	04	ZEUS $e p \rightarrow K_S^0 K_S^0 X$

¹⁰ Systematic errors not estimated.

¹¹ From a partial-wave analysis of data using a K-matrix formalism with 5 poles.

¹² CHABAUD 81 is a reanalysis of PAWLICKI 77 data.

¹³ From an amplitude analysis where the $f_2'(1525)$ width and elasticity are in complete disagreement with the values obtained from $K \bar{K}$ channel, making the solution dubious.

¹⁴ From a fit to the D with $f_2(1270)$ - $f_2'(1525)$ interference. Mass fixed at 1516 MeV.

¹⁵ Systematic errors not estimated.

¹⁶ Supersedes ACCIARRI 95J.

¹⁷ From an analysis ignoring interference with $f_0(1710)$.

¹⁸ From an analysis including interference with $f_0(1710)$.

¹⁹ T-matrix pole.

$f'_2(1525)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $K\bar{K}$	(88.8 \pm 3.1) %
Γ_2 $\eta\eta$	(10.3 \pm 3.1) %
Γ_3 $\pi\pi$	(8.2 \pm 1.5) $\times 10^{-3}$
Γ_4 $K\bar{K}^*(892) + \text{c.c.}$	
Γ_5 $\pi K\bar{K}$	
Γ_6 $\pi\pi\eta$	
Γ_7 $\pi^+\pi^+\pi^-\pi^-$	
Γ_8 $\gamma\gamma$	(1.11 \pm 0.14) $\times 10^{-6}$

CONSTRAINED FIT INFORMATION

An overall fit to the total width, 2 partial widths, a combination of partial widths obtained from integrated cross sections, and 3 branching ratios uses 15 measurements and one constraint to determine 5 parameters. The overall fit has a $\chi^2 = 14.0$ for 11 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle \delta p_i \delta p_j \rangle / (\delta p_i \delta p_j)$, in percent, from the fit to parameters p_i , including the branching fractions, $x_i \equiv \Gamma_i / \Gamma_{\text{total}}$. The fit constrains the x_i whose labels appear in this array to sum to one.

x_2	-100			
x_3	-3	-1		
x_8	-8	8	1	
Γ	-32	32	-1	-53
	x_1	x_2	x_3	x_8

Mode	Rate (MeV)
Γ_1 $K\bar{K}$	65 $^{+5}_{-4}$
Γ_2 $\eta\eta$	7.6 \pm 2.5
Γ_3 $\pi\pi$	0.60 \pm 0.12
Γ_8 $\gamma\gamma$	(8.1 \pm 0.9) $\times 10^{-5}$

$f'_2(1525)$ PARTIAL WIDTHS

$\Gamma(K\bar{K})$	Γ_1		
VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
65^{+5}_{-4} OUR FIT			
63^{+6}_{-5}	²⁰ LONGACRE	86 MPS	22 $\pi^- p \rightarrow K_S^0 K_S^0 n$

$\Gamma(\pi\pi)$ Γ_3

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
0.60 ± 0.12 OUR FIT			
1.4 ^{+1.0} / _{-0.5}	²⁰ LONGACRE	86 MPS	22 $\pi^- p \rightarrow K_S^0 K_S^0 n$

$\Gamma(\eta\eta)$ Γ_2

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
7.6 ± 2.5 OUR FIT			
• • • We do not use the following data for averages, fits, limits, etc. • • •			
24 ⁺³ / ₋₁	²⁰ LONGACRE	86 MPS	22 $\pi^- p \rightarrow K_S^0 K_S^0 n$
²⁰ From a partial-wave analysis of data using a K-matrix formalism with 5 poles.			

$f_2'(1525) \Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

$\Gamma(K\bar{K}) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}}$ $\Gamma_1\Gamma_8/\Gamma$

VALUE (keV)	EVTS	DOCUMENT ID	TECN	COMMENT
0.072 ± 0.007 OUR FIT				
0.072 ± 0.007 OUR AVERAGE				
0.0564 ± 0.0048 ± 0.0116		ABE	04 BELL	10.6 $e^+e^- \rightarrow e^+e^- K^+ K^-$
0.076 ± 0.006 ± 0.011	331	²³ ACCIARRI	01H L3	91, 183-209 $e^+e^- \rightarrow e^+e^- K_S^0 K_S^0$
0.067 ± 0.008 ± 0.015		²¹ ALBRECHT	90G ARG	$e^+e^- \rightarrow e^+e^- K^+ K^-$
0.11 ^{+0.03} / _{-0.02} ± 0.02		BEHREND	89C CELL	$e^+e^- \rightarrow e^+e^- K_S^0 K_S^0$
0.10 ^{+0.04} / _{-0.03} ^{+0.03} / _{-0.02}		BERGER	88 PLUT	$e^+e^- \rightarrow e^+e^- K_S^0 K_S^0$
0.12 ± 0.07 ± 0.04		²¹ AIHARA	86B TPC	$e^+e^- \rightarrow e^+e^- K^+ K^-$
0.11 ± 0.02 ± 0.04		²¹ ALTHOFF	83 TASS	$e^+e^- \rightarrow e^+e^- K\bar{K}$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.093 ± 0.018 ± 0.022		²¹ ACCIARRI	95J L3	Repl. by ACCIARRI 01H
0.0314 ± 0.0050 ± 0.0077		²² ALBRECHT	90G ARG	$e^+e^- \rightarrow e^+e^- K^+ K^-$

²¹ Using an incoherent background.

²² Using a coherent background.

²³ Supersedes ACCIARRI 95J.

$f'_2(1525)$ BRANCHING RATIOS

$\Gamma(\eta\eta)/\Gamma(K\bar{K})$

Γ_2/Γ_1

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.12±0.04 OUR FIT				
0.11±0.04				
		24 PROKOSHKIN 91	GAM4	300 $\pi^- p \rightarrow \pi^- p \eta \eta$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
<0.14	90	BARBERIS	00E	450 $p p \rightarrow p_f \eta \eta p_S$
<0.50		BARNES	67 HBC	4.6,5.0 $K^- p$
24 Combining results of GAM4 with those of WA76 on $K\bar{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \rightarrow \gamma \eta \eta$.				

$\Gamma(\pi\pi)/\Gamma_{\text{total}}$

Γ_3/Γ

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.0082±0.0016 OUR FIT				
0.0075±0.0016 OUR AVERAGE				
0.007 ±0.002		COSTA...	80 OMEG	10 $\pi^- p \rightarrow K^+ K^- n$
0.027 ^{+0.071} _{-0.013}		25 GORLICH	80 ASPK	17,18 $\pi^- p$
0.0075±0.0025		25,26 MARTIN	79 RVUE	
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
<0.06	95	AGUILAR-...	81B HBC	4.2 $K^- p \rightarrow \Lambda K^+ K^-$
0.19 ±0.03		CORDEN	79 OMEG	12-15 $\pi^- p \rightarrow$ $\pi^+ \pi^- n$
<0.045	95	BARREIRO	77 HBC	4.15 $K^- p \rightarrow \Lambda K_S^0 K_S^0$
0.012 ±0.004		25 PAWLICKI	77 SPEC	6 $\pi N \rightarrow K^+ K^- N$
<0.063	90	BRANDENB...	76C ASPK	13 $K^- p \rightarrow$ $K^+ K^- (\Lambda, \Sigma)$
<0.0086		25 BEUSCH	75B OSPK	8.9 $\pi^- p \rightarrow K^0 \bar{K}^0 n$
25 Assuming that the $f'_2(1525)$ is produced by an one-pion exchange production mechanism.				
26 MARTIN 79 uses the PAWLICKI 77 data with different input value of the $f'_2(1525) \rightarrow K\bar{K}$ branching ratio.				

$\Gamma(\pi\pi)/\Gamma(K\bar{K})$

Γ_3/Γ_1

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.0092±0.0018 OUR FIT			
0.075 ±0.035	AUGUSTIN	87 DM2	$J/\psi \rightarrow \gamma \pi^+ \pi^-$

$\Gamma(\pi\pi\eta)/\Gamma(K\bar{K})$

Γ_6/Γ_1

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
<0.41	95	AGUILAR-...	72B HBC	3.9,4.6 $K^- p$
<0.3	67	AMMAR	67 HBC	

$[\Gamma(K\bar{K}^*(892)+\text{c.c.}) + \Gamma(\pi K\bar{K})]/\Gamma(K\bar{K})$

$(\Gamma_4+\Gamma_5)/\Gamma_1$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
<0.35	95	AGUILAR-...	72B HBC	3.9,4.6 $K^- p$
<0.4	67	AMMAR	67 HBC	

$\Gamma(\pi^+\pi^+\pi^-\pi^-)/\Gamma(K\bar{K})$ Γ_7/Γ_1

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
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● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●

<0.32	95	AGUILAR-...	72B HBC	3.9,4.6 $K^- p$
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 $\Gamma(\eta\eta)/\Gamma_{\text{total}}$ Γ_2/Γ

VALUE	DOCUMENT ID	TECN	COMMENT
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● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●

0.10±0.03	²⁷ PROKOSHKIN 91	GAM4	300 $\pi^- p \rightarrow \pi^- p \eta\eta$
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²⁷ Combining results of GAM4 with those of WA76 on $K\bar{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \rightarrow \gamma\eta\eta$.

 $f'_2(1525)$ REFERENCES

ABLIKIM	05	PL B607 243	M. Ablikim <i>et al.</i>	(BES Collab.)
ABE	04	EPJ C32 323	K. Abe <i>et al.</i>	(BELLE Collab.)
CHEKANOV	04	PL B578 33	S. Chekanov <i>et al.</i>	(ZEUS Collab.)
BAI	03G	PR D68 052003	J.Z. Bai <i>et al.</i>	(BES Collab.)
TIKHOMIROV	03	PAN 66 828	G.D. Tikhomirov <i>et al.</i>	
		Translated from YAF 66 860.		
AMSLER	02	EPJ C23 29	C. Amsler <i>et al.</i>	
ACCIARRI	01H	PL B501 173	M. Acciarri <i>et al.</i>	(L3 Collab.)
BARBERIS	00E	PL B479 59	D. Barberis <i>et al.</i>	(WA 102 Collab.)
BARBERIS	99	PL B453 305	D. Barberis <i>et al.</i>	(Omega Expt.)
BARKOV	99	JETPL 70 248	B.P. Barkov <i>et al.</i>	
		Translated from ZETFP 70 242.		
ABREU	96C	PL B379 309	P. Abreu <i>et al.</i>	(DELPHI Collab.)
BAI	96C	PRL 77 3959	J.Z. Bai <i>et al.</i>	(BES Collab.)
ACCIARRI	95J	PL B363 118	M. Acciarri <i>et al.</i>	(L3 Collab.)
PROKOSHKIN	91	SPD 36 155	Y.D. Prokoshkin	(GAM2, GAM4 Collab.)
		Translated from DANS 316 900.		
ALBRECHT	90G	ZPHY C48 183	H. Albrecht <i>et al.</i>	(ARGUS Collab.)
PDG	90	PL B239	J.J. Hernandez <i>et al.</i>	(IFIC, BOST, CIT+)
BEHREND	89C	ZPHY C43 91	H.J. Behrend <i>et al.</i>	(CELLO Collab.)
ASTON	88D	NP B301 525	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
AUGUSTIN	88	PRL 60 2238	J.E. Augustin <i>et al.</i>	(DM2 Collab.)
BERGER	88	ZPHY C37 329	C. Berger <i>et al.</i>	(PLUTO Collab.)
FALVARD	88	PR D38 2706	A. Falvard <i>et al.</i>	(CLER, FRAS, LALO+)
AUGUSTIN	87	ZPHY C36 369	J.E. Augustin <i>et al.</i>	(LALO, CLER, FRAS+)
BALTRUSAITIS...	87	PR D35 2077	R.M. Baltrusaitis <i>et al.</i>	(Mark III Collab.)
AIHARA	86B	PRL 57 404	H. Aihara <i>et al.</i>	(TPC-2 γ Collab.)
BOLONKIN	86	SJNP 43 776	B.V. Bolonkin <i>et al.</i>	(ITEP) JP
		Translated from YAF 43 1211.		
LONGACRE	86	PL B177 223	R.S. Longacre <i>et al.</i>	(BNL, BRAN, CUNY+)
ALTHOFF	83	PL 121B 216	M. Althoff <i>et al.</i>	(TASSO Collab.)
ARMSTRONG	83B	NP B224 193	T.A. Armstrong <i>et al.</i>	(BARI, BIRM, CERN+)
AGUILAR-...	81B	ZPHY C8 313	M. Aguilar-Benitez <i>et al.</i>	(CERN, CDEF+)
ALHARRAN	81	NP B191 26	S. Al-Harran <i>et al.</i>	(BIRM, CERN, GLAS+)
CHABAUD	81	APP B12 575	V. Chabaud <i>et al.</i>	(CERN, CRAC, MPIM)
COSTA...	80	NP B175 402	G. Costa de Beauregard <i>et al.</i>	(BARI, BONN+)
GORLICH	80	NP B174 16	L. Gorlich <i>et al.</i>	(CRAC, MPIM, CERN+)
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MARTIN	79	NP B158 520	A.D. Martin, E.N. Ozmutlu	(DURH)
POLYCHRO...	79	PR D19 1317	V.A. Polychronakos <i>et al.</i>	(NDAM, ANL)
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